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DOCUMENT-IDENTIFIER: JP 11060833 A

TITLE: POLYPROPYLENE COMPOSITION AND ITS FILM

PUBN-DATE: March 5, 1999

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COUNTRY

N/A

APPL-NO: JP09222584

APPL-DATE: August 19, 1997

INT-CL (IPC): C08L023/08;C08J005/18

ABSTRACT:

PROBLEM TO BE SOLVED: To obtain a composition which can give films excellent in low- temperature heat sealability, rigidity, impact resistance, antiblocking properties, etc., by including an isotactic propylene random copolymer having specified properties and prepared by using a metallocene catalyst and a propylene random copolymer having specified properties.

SOLUTION: This composition comprises 1-50 pts.wt. isotactic random copolymer comprising propylene, ethylene and/or a 4-20C  $\alpha$ -olefin and having a comonomer unit content of 1-15 wt.% (as measured by <sup>13</sup>C-NMR), an

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intrinsic viscosity of 1.0-4.0 dl/g (in decalin at 135°C) and a GPC Mw/Mn ratio of 3.5 or below and prepared by using a metallocene catalyst and 99-50 pts.wt. random copolymer comprising propylene, ethylene and/or a 4-20C  $\alpha$ -olefin and having a comonomer unit content of 1-10 wt.%, an intrinsic viscosity of 1.0-2.0 dl/g and an Mw/Mn ratio of 3.5 or above.

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MC - A04-G01B A07-A02D A09-A01A A12-S06D

PA - (IDEM ) IDEMITSU PETROCHEM CO LTD

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PR - JP19970222584 19970819

XA - C1999-068692

XIC - C08J-005/18 ; C08L-023/08

AB - J11060833 A composition includes a random copolymer of propylene having an isotactic structure obtd by using a metallocene catalyst, and ethylene and/or C4-20 alpha-olefin as a comonomer, having 1 - 15 wt. % of a comonomer unit measured by isotopic carbon nucleus magnetic resonance spectral (<sup>13</sup>C-NMR), 1.0 - 4.0 dl/g of limiting viscosity (eta) measured at 135 deg. C in decalin, and less than 3.5 of Mw/Mn ratio measured by gel permeation chromatography, and (B) a random copolymer of propylene, and ethylene and/or C4-20 alpha-olefin as a comonomer, having 1 - 10 wt. % of comonomer unit measured by <sup>13</sup>C-NMR method, 1.0 - 2.0 dl/g of limiting viscosity (eta) measured at 135 deg. C in decalin, and more than 3.5 of Mw/Mn measured by GPC method, by wt. ratio of (A):(B) of 1:99 through 50:50 by wt.

- ADVANTAGE - A film superior in a low temp. heat sealing property, rigidity, impact-proof property and antiblocking property can be obtd.

- (Dwg.0/0)

IW - POLYPROPYLENE FILM COMPOSITION LOW TEMPERATURE HEAT SEAL PREPARATION  
ETHYLENE ALPHA OLEFIN CO MONOMER METALLOCENE CATALYST

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NC - 001

OPD - 1997-08-19

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PAW - (IDEM ) IDEMITSU PETROCHEM CO LTD

TI - Polypropylene film composition having low temperature heat-sealing - prepared using ethylene and/or alpha olefin co-monomers and metallocene catalyst.

A01 - [001] 018 ; H0022 H0011 ; R00964 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D83 ; G0033-R G0022 D01 D02 D51 D53 D84 D85 D86 D87 D88 D89 D90 D91 D92 D93 D94 H0215 ; H0113 H0011 ; S9999 S1285-R ; P1150 ;

- [002] 018 ; H0022 H0011 ; R00964 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D83 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D82 H0215 ; H0113 H0011 ; S9999 S1285-R ; P1150 ; P1285 ;

- [003] 018 ; R00964 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D83 ; G0033-R G0022 D01 D02 D51 D53 D84 D85 D86 D87 D88 D89 D90 D91 D92 D93 D94 H0215 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D83 ;

B5298 B5276 ; B9999 B4079 B3930 B3838 B3747 ; B9999 B4159 B4091  
B3838 B3747 ; B9999 B5685 B5276 ; B9999 B3178 ; K9665 ;  
- [005] 018 ; D01 D62 D61 D68 Tr-R ; C999 C033 C000 ; C999 C293 ;

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